3.3: Data and Analysis

Data Collection

(Acquiring competencies) Following your detailed protocol based on the videos, perform all the experiments. Record your observations and take pictures of your key steps in the process. Your observations and images need to be incorporated in your data section and this section should be as detailed as possible as you will use this information to complete your discussion.

Data Processing

1. (Representation) Complete the following table with the relevant information from you and your team members. (HINT: Select the longest dimension in cm for the size.)

Student name	Seed crystal 1 size (cm)	Seed crystal 2 size (cm)	Seed crystal 1 mass (g)	Seed crystal 2 mass (g)	Seed crystal 1 picture	Seed crystal 2 picture	Crystal 1 picture at the end of the week	Crystal 2 picture at the end of the week

2. (Interpretation) Identify at least one aspect that all the experiments were similar in, and one aspect that the experiments differed in.

3. (Assumptions and Analysis) Fill in the following table using the observations and data from your experiments.

Assumptions made	Testing the assumption	If assumptions are wrong ...
Our alum grow solution is saturated.	Submerge the crystal in the grow solution.	If it is unsaturated, the crystal will disappear. If it is very supersaturated there will be other alum crystals forming.
The string will not dissolve in the solution.	Submerge the string in the grow solution.	